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## NOTICE OF ALLOWANCE AND FEE(S) DUE

60140	7590	10/31/2008
IMMERSIO	ON -THELE	N LLP
P.O. BOX 6-	40640	
SAN IOSE	CA 95164-06	40

EXAMINER
SIM, YONU H

ART UNIT PAPER NUMBER
2629
DATE MAILED 10/31/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/803,080	03/18/2004	Richard L. Cunningham	IMMR-IMD0194	4170
TITLE OF INVENTION, V	EDICAL DEVICE AND BE	OCEDIDE CIMILI ATION	(034701-111)	

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	02/02/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

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If the SMALL ENTITY is shown as NO:

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B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

## PART B - FEE(S) TRANSMITTAL

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appropriate. All further indicated unless correct maintenance fee notifica	correspondence includir ed below or directed oth	ng the Patent, advance on herwise in Block 1, by (a	rders and notification of n a) specifying a new corres	pondence address; a	ll be m	nailed to the current (b) indicating a sepa	correspondence address as trate "FEE ADDRESS" for
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							(Depositor's name)
			<u> </u>				(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTORNEY DOCKET NO. CONFIRMATION NO.		
10/803,080 TITLE OF INVENTION	03/18/2004 T: MEDICAL DEVICE A	ND PROCEDURE SIM	Richard L. Cunningham ULATION			MR-IMD0194 034701-111)	4170
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nonprovisional	NO	\$1510	\$300	\$0		\$1810	02/02/2009
EXAM	IINER	ART UNIT	CLASS-SUBCLASS				
SIM, Y	ONG H	2629	345-007000	-			
"Fee Address" ind PTO/SB/47; Rev 03- Number is required.  3. ASSIGNEE NAME A	ondence address (or Cha 3/122) attached. ication (or "Fee Address 12 or more recent) attach ND RESIDENCE DAT2 less an assignee is ident h in 37 CFR 3.11. Comp	nge of Correspondence "Indication form ed. Use of a Customer A TO BE PRINTED ON	2. For printing on the p (1) the names of up to or agents OR, alternativ (2) the name of a single registered attorney or a 2 registered patent atto listed, no name will be THE PATENT (print or typ data will appear on the p T a substitute for filing an (B) RESIDENCE: (CTTY)	3 registered patent vely, e firm (having as a riggent) and the names meys or agents. If no printed.	nember s of up o name	ra 2to to 3	ocument has been filed for
Please check the appropriate (s)  4a. The following fee(s)  I Issue Fee  Publication Fee (N	iate assignee category or are submitted: Vo small entity discount p		inted on the patent):  D. Payment of Fee(s): (Plea  A check is enclosed.  Payment by credit can	Individual Cor se first reapply any d. Form PTO-2038	poratio previo	on or other private gro ously paid issue fee	
Advance Order -	# of Copies		The Director is hereby overpayment, to Depo	authorized to charge sit Account Number	e the re	equired fee(s), any de (enclose a	ficiency, or credit any n extra copy of this form).
	s SMALL ENTITY state	is. See 37 CFR 1.27.	☐ b. Applicant is no long				
NOTE: The Issue Fee an interest as shown by the	d Publication Fee (if req records of the United Sta	uired) will not be accepte tes Patent and Trademark	d from anyone other than the Office.	he applicant; a regist	ered at	torney or agent; or th	e assignee or other party in
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10/803,080		03/18/2004	Richard L. Cunningham	IMMR-IMD0194 4170			
60140	7590	10/31/2008		EXAMINER			
IMMERSION	-THEL	EN LLP		SIM, Y	ONG H		
P.O. BOX 6406				ART UNIT	PAPER NUMBER		
SAN JOSE, CA	95164-0	0640		2629			
				DATE MAILED: 10/31/2008			

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 904 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 904 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

# Application No. Applicant(s) 10/803 080 CUNNINGHAM ET AL. Notice of Allowability Examiner Art Unit YONG SIM 2629 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. This communication is responsive to 10/02/2008. The allowed claim(s) is/are 1-4,6-20,25-27 and 30-33. 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) $\square$ All b) ☐ Some\* c) ☐ None of the: 1. T Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). \* Certified copies not received: \_\_\_\_\_. Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1. | Notice of References Cited (PTO-892) 5. Notice of Informal Patent Application 2. Notice of Draftperson's Patent Drawing Review (PTO-948) Interview Summary (PTO-413), Paper No./Mail Date

U.S. Patent	and	Trad	emark	Office
PTOL-37	(R	ev I	08-80	3)

Paper No./Mail Date

of Biological Material

Information Disclosure Statements (PTO/SB/08).

4. T Examiner's Comment Regarding Requirement for Deposit

7. X Examiner's Amendment/Comment

9. ☐ Other .

8. X Examiner's Statement of Reasons for Allowance

Application/Control Number: 10/803,080 Page 2

Art Unit: 2629

## EXAMINER'S AMENDMENT

 An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with the Applicant's representative on 10/23/2008.

The application has been amended as follows:

Claim 30: A method, comprising:

receiving a position signal via a sensor, the position signal associated with a position of a manipulandum, at least a portion of the manipulandum penetrating a material within an interface member, the material having a selectively variable density wherein the material includes a first layer having a first density and a second layer having a second density; and

adjusting the density of the second layer of the material to be different from the density of the first layer of the material within at least a portion of the interface member via an actuator coupled to the sensor, wherein the adjusting of the density imparts a haptic effect onto the manipulandum as the manipulandum is moved between the first layer and the second layer.

Application/Control Number: 10/803,080 Page 3

Art Unit: 2629

# REASONS FOR ALLOWANCE

1. The following is an examiner's statement of reasons for allowance:

Anderson et al. (US 2004/0009459) teach a system for the simulation of image-guided medical procedures and methods wherein the simulation provides a highly realistic environment which gives a user with the capability to practice and/or preplan a diagnostic and/or treatment by providing haptic feedback based on the position and/or interactions of medical devices with the interface.

Madsen et al. (US 6,318,146 B1) teach tissues-mimicking material suitable for phantoms for use with at least ultrasound and MRI have sections of material in contact with each other which mimic ultrasound and magnetic resonance imaging properties of human tissues, and preferably so that the phantom can be used for the testing of imaging by various types of medical imagers.

However, none of the prior art of reference individually or in combination teach adjusting the density of a second layer to be different from the density of the first layer in response to the position of a manipulandum.

Therefore, the claims 1 - 3 are allowed.

Application/Control Number: 10/803,080

Art Unit: 2629

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to YONG SIM whose telephone number is (571)270-1189. The examiner can normally be reached on Monday - Friday (Alternate Fridays off) 7:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Amr Awad can be reached on (571) 272-7764. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Application/Control Number: 10/803,080 Page 5

Art Unit: 2629

/YONG SIM/ Examiner, Art Unit 2629

/Amr Awad/ Supervisory Patent Examiner, Art Unit 2629

10/23/2008